

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0010</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Wadsworth Canal</b>	<b>U</b>	<b>9.22</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.04	0.01	0.08	0.87%				
Slope Stability	0.02		0.02	0.22%				
Erosion / Bank Caving	0.01	0.02	0.09	0.98%				
Cracking							0.01	
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	5.58		5.58	60.49%				
DWR UCIP Field Study					0.11	0.02		
<i>LMA Totals:</i>	5.65	0.03	5.77	62.55%	0.11	0.02	0.01	0.00

<b>Unit No. 01 Wadsworth Canal LB</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0010</b>	<b>U</b>	<b>4.63</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.22%				
Erosion / Bank Caving	0.01	0.02	0.09	1.95%				
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	2.80		2.80	60.53%				
DWR UCIP Field Study					0.06			
<i>Unit Totals:</i>	2.82	0.02	2.90	62.69%	0.06	0.00	0.00	0.00

<b>Unit No. 02 Wadsworth Canal RB</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0010</b>	<b>U</b>	<b>4.60</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.03	0.01	0.07	1.52%				
Slope Stability	0.02		0.02	0.44%				
Cracking							0.01	
<i>Supplemental</i>								
2017 USACE Erosion Survey, DRAFT	2.78		2.78	60.46%				
DWR UCIP Field Study					0.05	0.02		
<i>Unit Totals:</i>	2.83	0.01	2.87	62.42%	0.05	0.02	0.01	0.00

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Sutter Maintenance Yard Wadsworth Canal**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

†

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway			Bank	Unit Miles
Unit No. 01 Wadsworth Canal			Left	4.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/29/2018 - 3/29/2018		11/6/2018 - 11/6/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	<b>10</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_10				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>11</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	<b>12</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2018.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	108
LM End	0.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.113670 °	39.113670 °
				-121.768310 °	-121.768310 °
DWR ID	17068				
Comment Code					
Inspector Comment					
FS_ID:51492 DS_ID:17068 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/10/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/12/2016 Unable to locate.(DWR Sutter Yard -afreitag)4/19/2016 Unable to locate.5/12/2015 Unable to locate.11/18/2014 Unable to locate.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/09/2012 Need to determine disposition of pipe, contact pipe owner if possible. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. Waterside (WS) bank protected by rock. (Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:31:56 AM					

No Photos

LM Start	0.06	Rating **	A/W	Issue No.	20
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.114203 °	39.114842 °
				-121.768015 °	-121.767382 °
DWR ID	DWR_ST0010_01_f _ 2016_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_20\_20180905\_00013.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Wadsworth Canal



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.21	Rating **	M	Issue No.	109	
LM End	1.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.127566 °	39.127566 °	
				-121.755282 °	-121.755282 °	
DWR ID	17059					
Comment Code						
Inspector Comment						
FS_ID:51493 DS_ID:17059 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.5/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/09/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe) through the levee, 3.7 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel. Aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:32:31 AM						

LM Start	<b>1.21</b>	Rating **	M	Issue No.	<b>109 (cont)</b>
LM End	<b>1.21</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51493\_64702.jpg



Power pole with cut powerlines, pump missing from steel pier.

Photo 2 of 3 : UCIP\_FA\_2018\_51493\_64701.jpg



Pipe on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.21	Rating **	M	Issue No.	109 (cont)	
LM End	1.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.127566°	39.127566°	
				-121.755282°	-121.755282°	
DWR ID	17059					
Comment Code						
Inspector Comment						
FS_ID:51493 DS_ID:17059 EP_NO: 1605 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Abandoned. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/16/2016 Abandoned crossing. Ws pipe end is open and should be capped.5/12/2015 Abandoned crossing. Needs to be properly abandoned.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/09/2012 No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe (permit records indicate 16-inch pipe) through the levee, 3.7 feet below the crown. Siphon breaker on the waterside (WS) slope. Pump on channel bank on steel structure. (16-inch pipe authorized under Permit No. 1605, 1959 - Schnabel. Aerial 12 KV power line extension for pump authorized under Permit No. 1631, 1959 - Pacific Gas and Electric Company [PG&E]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:32:31 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51493\_64700.jpg



Pipe on WS slope with siphon breaker at WS shoulder.

LM Start	1.75	Rating **	M	Issue No.	7
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.76	Rating **	C	Issue No.	23
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.133978 °	39.133978 °
				-121.749327 °	-121.749327 °
DWR ID	DWR_ST0010_01_f_2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes were repaired along the waterside slope.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	110
LM End	1.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.135091 °	39.135091 °
				-121.748196 °	-121.748196 °
DWR ID	17063				

**Comment Code**

**Inspector Comment**

FS\_ID:51498  
DS\_ID:17063  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/10/2017 Abandoned. 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing. No noticeable issues to report.5/12/2015 Abandoned crossing. Cap was made and installed on WS open end of pipe.11/18/2014 Same as last inspection.5/13/2014 Cap was made and bolted on to WS open end of pipe.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. Steve Beckley is looking into finding pipe owner to properly abandon pipe.10/9/2012 Pipe abandoned. Pipe open and not plugged. Pipe should be removed or abandoned properly. Extensive animal burrowing occurring along pipe alignment. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 14-inch steel irrigation pipe (permit records reference 24-inch corrugated metal in 1939 and existing 18-inch pipe in 1932 through levee, USACE O&M references 15-inch pipe in 1953) through the levee, 5.7 feet below the crown. Siphon breaker located on the landside (LS). Vertical pump located on the waterside (WS). Meter pole located on the WS berm. (Permit authorized existing 18-inch pipe and new installation of pump under Permit No. 572, 1932 - Joaquin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 98+02)].  
FS Date: 4/12/2017 9:37:31 AM

LM Start	<b>1.85</b>	Rating **	M	Issue No.	<b>110 (cont)</b>
LM End	<b>1.85</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51498\_64711.jpg



Pump missing from steel pier on WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_51498\_64710.jpg



Pipe with siphon breaker plugged on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	110 (cont)
LM End	1.85	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.135091 °	39.135091 °
				-121.748196 °	-121.748196 °
DWR ID	17063				

**Comment Code**

**Inspector Comment**

FS\_ID:51498  
DS\_ID:17063  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/10/2017 Abandoned. 10/12/2016 Abandoned crossing.(DWR Sutter Yard - afreitag)4/19/2016 Abandoned crossing. No noticeable issues to report.5/12/2015 Abandoned crossing. Cap was made and installed on WS open end of pipe.11/18/2014 Same as last inspection.5/13/2014 Cap was made and bolted on to WS open end of pipe.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. Steve Beckley is looking into finding pipe owner to properly abandon pipe.10/9/2012 Pipe abandoned. Pipe open and not plugged. Pipe should be removed or abandoned properly. Extensive animal burrowing occurring along pipe alignment. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 14-inch steel irrigation pipe (permit records reference 24-inch corrugated metal in 1939 and existing 18-inch pipe in 1932 through levee, USACE O&M references 15-inch pipe in 1953) through the levee, 5.7 feet below the crown. Siphon breaker located on the landside (LS). Vertical pump located on the waterside (WS). Meter pole located on the WS berm. (Permit authorized existing 18-inch pipe and new installation of pump under Permit No. 572, 1932 - Joaquin). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 98+02)].  
FS Date: 4/12/2017 9:37:31 AM

Photo 3 of 3 : UCIP\_FA\_2018\_51498\_64709.jpg



Extensive burrowing along pipe alignment on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Wadsworth Canal

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**Flood Control Project Maintenance  
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**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	106
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.135110 °	39.135110 °
				-121.748229 °	-121.748229 °
DWR ID	DWR_ST0010_01_f_2013_106				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_106\_20180905\_00016.jpg



View of the rodent holes under the irrigation pipe.

LM Start	2.43	Rating **	M	Issue No.	6
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 L					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 4 : FA\_2018\_ST0010\_42\_6\_20180905\_00006.jpg



View of the erosion along the waterside toe.

LM Start	<b>2.43</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>3.30</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA\_2018\_ST0010\_42\_6\_20180905\_00007.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	2.43	Rating **	M	Issue No.	6 (cont)	
LM End	3.30	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 USACE Erosion Survey, DRAFT			39.142235 °		39.153095 °
				-121.742609 °		-121.734390 °
DWR ID	DWR_ST0010_01_f_2018_6					
Comment Code						
Inspector Comment						
2017 Site ID: WAC 2.4 L						
Status: Eroding						
2017 Field Notes: Significant new erosion along lower bank.						
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.						

Photo 3 of 4 : FA\_2018\_ST0010\_42\_6\_20180905\_00008.jpg



View of the erosion along the waterside toe.

LM Start	<b>2.43</b>	Rating **	M	Issue No.	<b>6 (cont)</b>
LM End	<b>3.30</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : FA\_2018\_ST0010\_42\_6\_20180905\_00009.jpg



View of the erosion along the waterside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.04	Rating **	M	Issue No.	111
LM End	3.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.149549 °	39.149549 °
				-121.736408 °	-121.736408 °
DWR ID	17065				

**Comment Code**

**Inspector Comment**

FS\_ID:51500  
DS\_ID:17065  
EP\_NO: 7209  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard- AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch, USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)].  
FS Date: 4/12/2017 9:39:10 AM

LM Start	<b>3.04</b>	Rating **	M	Issue No.	<b>111 (cont)</b>
LM End	<b>3.04</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51500\_64718.jpg



36-inch pipe with flapgate on WS slope.

Photo 2 of 3 : UCIP\_FA\_2018\_51500\_64717.jpg



Inlet in weeds on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.04	Rating **	M	Issue No.	111 (cont)	
LM End	3.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.149549 °	39.149549 °	
				-121.736408 °	-121.736408 °	
DWR ID	17065					
Comment Code						
Inspector Comment						
FS_ID:51500 DS_ID:17065 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch, USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)]. FS Date: 4/12/2017 9:39:10 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51500\_64716.jpg



Pipe inlet heavily shielded by vegetation.

LM Start	3.25	Rating **	A	Issue No.	24
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.152282 °	39.152925 °
				-121.734580 °	-121.734275 °
DWR ID	DWR_ST0010_01_f_2018_24				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The waterside channel was repaired by Sutter Maintenance Yard.					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_24\_20181106\_00037.jpg



View of the repaired erosion along the waterside channel.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.30	Rating **	M	Issue No.	112
LM End	3.30	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153043 °	39.153043 °
				-121.734247 °	-121.734247 °
DWR ID	23097				
Comment Code					
Inspector Comment					
FS_ID:51501 DS_ID:23097 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. Photos added. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)5/31/2016 Need photos markers and levee overview (O. Magana)4/19/2016 Crossing appears to be in good condition. No permit on file.5/12/2015 No noticeable issues with crossing but no permit on file for it.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/12/2017 9:40:23 AM					

LM Start	<b>3.30</b>	Rating **	M	Issue No.	<b>112 (cont)</b>
LM End	<b>3.30</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51501\_76953.jpg



Levee overview looking upstream.

Photo 2 of 3 : UCIP\_FA\_2018\_51501\_76954.jpg



Conduit exiting WS slope and attaching to the downstream side of South Butte Rd bridge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.30	Rating **	M	Issue No.	112 (cont)	
LM End	3.30	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.153043 °	39.153043 °	
				-121.734247 °	-121.734247 °	
DWR ID	23097					
Comment Code						
Inspector Comment						
FS_ID:51501 DS_ID:23097 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. Photos added. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)5/31/2016 Need photos markers and levee overview (O. Magana)4/19/2016 Crossing appears to be in good condition. No permit on file.5/12/2015 No noticeable issues with crossing but no permit on file for it.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication line conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers. No permit has been identified since crossing was field discovered in 2012. FS Date: 4/12/2017 9:40:23 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51501\_76955.jpg



Close up of carsonite marker.

LM Start	3.32	Rating **	M	Issue No.	25
LM End	4.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.153296 °	39.170973 °
				-121.734304 °	-121.726852 °
DWR ID	DWR_ST0010_01_f_2018_25				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.4 L					
Status: Eroding New					
2017 Field Notes: Significant lower bank erosion and overall slumping.					
Site History:					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.50	Rating **	M	Issue No.	113
LM End	3.50	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.155752 °	39.155752 °
				-121.733115 °	-121.733115 °
DWR ID	17066				
Comment Code					
Inspector Comment					
FS_ID:51502 DS_ID:17066 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 LS heavily vegetated but nothing appears to have changed with the crossing. LS headwall still silted in and pipe discharges directly into the rice field. (DWR Sutter Yard-AFreitag)10/12/2016 Crossing appears to be in good condition.4/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field.5/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 18-inch standpipe located on the WS toe. Concrete "U" shaped headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87)]. FS Date: 4/12/2017 9:44:02 AM					

Photo 1 of 3 : UCIP\_FA\_2018\_51502\_64720.jpg



Pump, Pipe, walkway, power pole, and standpipe on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.50	Rating **	M	Issue No.	113 (cont)	
LM End	3.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.155752 °	39.155752 °	
				-121.733115 °	-121.733115 °	
DWR ID	17066					
Comment Code						
Inspector Comment						
FS_ID:51502 DS_ID:17066 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 LS heavily vegetated but nothing appears to have changed with the crossing. LS headwall still silted in and pipe discharges directly into the rice field. (DWR Sutter Yard-AFreitag)10/12/2016 Crossing appears to be in good condition.4/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field.5/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 18-inch standpipe located on the WS toe. Concrete ""U"" shaped headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87)]. FS Date: 4/12/2017 9:44:02 AM						

Photo 2 of 3 : UCIP\_FA\_2018\_51502\_64719.jpg



Concrete U shaped headwall on LS toe under tree.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.50	Rating **	M	Issue No.	113 (cont)	
LM End	3.50	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.155752 °	39.155752 °	
				-121.733115 °	-121.733115 °	
DWR ID	17066					
Comment Code						
Inspector Comment						
FS_ID:51502 DS_ID:17066 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 LS heavily vegetated but nothing appears to have changed with the crossing. LS headwall still silted in and pipe discharges directly into the rice field. (DWR Sutter Yard-AFreitag)10/12/2016 Crossing appears to be in good condition.4/19/2016 Crossing has not changed since the last inspection. LS headwall is silted in and not being used. LS pipe end discharges into the rice field.5/12/2015 Concrete headwall on LS is completely silted in. LS pipe end is located near the edge of rice field. No issues seen on WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Concrete headwall is silted in and appears to be abandoned. Discharge end of pipe is approx. 100ft. from LS toe on the edge of the rice field.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch steel irrigation pipe (USACE O&M refers to 24-inch corrugated metal pipe) through the levee, 11 feet below the crown. Slide gate in 4-foot by 6-foot concrete distribution box located at the waterside (WS) toe. (not found in 2012) Vertical pump mounted on a steel structure in channel. Service pole on the berm with 18-inch standpipe located on the WS toe. Concrete ""U"" shaped headwall located on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 184+87)]. FS Date: 4/12/2017 9:44:02 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51502\_64721.jpg



View of LS headwall silted in.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.53	Rating **	A/W	Issue No.	3
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156225°	39.156639°
				-121.732930°	-121.732755°
DWR ID	DWR_ST0010_01_s_2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_3\_20180905\_00001.jpg



View of the erosion along the waterside toe.

LM Start	3.65	Rating **	A/W	Issue No.	4
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.157861°	39.157861°
				-121.732238°	-121.732238°
DWR ID	DWR_ST0010_01_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 2 : FA\_2018\_ST0010\_42\_4\_20180905\_00002.jpg



View of the erosion along the waterside toe of the levee.

LM Start	<b>3.65</b>	Rating **	A/W	Issue No.	<b>4 (cont)</b>
LM End	<b>3.65</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_ST0010\_42\_4\_20180905\_00003.jpg



View of the erosion along the waterside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.84	Rating **	A/W	Issue No.	17
LM End	3.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.160442°	39.162235°
				-121.731067°	-121.730912°
DWR ID	DWR_ST0010_01_f_2014_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_17\_20180905\_00010.jpg



View of the erosion along the waterside toe.

LM Start	4.08	Rating **	A	Issue No.	21
LM End	4.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.163792 °	39.163792 °
				-121.729733 °	-121.729733 °
DWR ID	DWR_ST0010_01_f _2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

Photo 1 of 1 : FA\_2018\_ST0010\_42\_21\_20181106\_00036.jpg



View of no vegetation on both slopes.

LM Start	4.23	Rating **	A/W	Issue No.	5
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.165845 °	39.165845 °
				-121.728877 °	-121.728877 °
DWR ID	DWR_ST0010_01_s_2012_5				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 2 : FA\_2018\_ST0010\_42\_5\_20180905\_00004.jpg



View of the erosion along the waterside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	4.23	Rating **	A/W	Issue No.	5 (cont)	
LM End	4.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.165845 °		39.165845 °
				-121.728877 °		-121.728877 °
DWR ID	DWR_ST0010_01_s_2012_5					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Monitor the erosion along the waterside toe.						

Photo 2 of 2 : FA\_2018\_ST0010\_42\_5\_20180905\_00005.jpg



View of the erosion along the waterside toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway			Bank	Unit Miles
Unit No. 02 Wadsworth Canal			Right	4.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/29/2018 - 3/29/2018		11/6/2018 - 11/6/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	24	
LM End	0.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.114372 °	39.114372 °	
				-121.769263 °	-121.769263 °	
DWR ID	17080					
Comment Code						
Inspector Comment						
FS_ID:52633 DS_ID:17080 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 4/10/2017 Unable to locate. (DWR Sutter Yard-AFreitag)4/19/2016 Unable to locate.5/12/2015 Unable to locate.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Unable to locate any signage. Call owner to determine disposition of pipeline. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 3.5-inch steel gas line through the levee, 3 feet below the crown. Gas line goes through both levees and Wadsworth Canal. (Permit No. 5296, 1966 - Atlantic Oil Company). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:46:00 AM						

No Photos

LM Start	0.24	Rating **	M	Issue No.	17
LM End	0.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.116913 °	39.116913 °
				-121.766768 °	-121.766768 °
DWR ID	DWR_ST0010_02_f_2018_17				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent hole along the waterside slope.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_17\_20181008\_00035.jpg



View of the rodent hole along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.16	Rating **	M	Issue No.	25	
LM End	1.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.127487 °	39.127487 °	
				-121.756485 °	-121.756485 °	
DWR ID	17069					
Comment Code						
Inspector Comment						
FS_ID:51506 DS_ID:17069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Abanoned crossing with heavy rodent activity around it. Needs to be removed. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/19/2016 Abandoned crossing. Rodent activity still present on WS slope.5/12/2015 Abandoned crossing. Signs of rodent activity on both sides of levee.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 4.8 feet below the crown. Pump mounted on concrete pad near canal bank located on the waterside (WS). Service pole located on the berm. 36-inch concrete standpipe located on the landside (LS) toe. (Permit No. 945, 1944 - Becker). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 61+10)]. FS Date: 4/12/2017 9:47:25 AM						

LM Start	<b>1.16</b>	Rating **	M	Issue No.	<b>25 (cont)</b>
LM End	<b>1.16</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51506\_64728.jpg



Pipe and Standpipe on LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_51506\_64727.jpg



Pipe and pump facilities on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.16	Rating **	M	Issue No.	25 (cont)	
LM End	1.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.127487 °	39.127487 °	
				-121.756485 °	-121.756485 °	
DWR ID	17069					
Comment Code						
Inspector Comment						
FS_ID:51506 DS_ID:17069 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Abanoned crossing with heavy rodent activity around it. Needs to be removed. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing.(DWR Sutter Yard -afreitag)4/19/2016 Abandoned crossing. Rodent activity still present on WS slope.5/12/2015 Abandoned crossing. Signs of rodent activity on both sides of levee.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 4.8 feet below the crown. Pump mounted on concrete pad near canal bank located on the waterside (WS). Service pole located on the berm. 36-inch concrete standpipe located on the landside (LS) toe. (Permit No. 945, 1944 - Becker). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 61+10)]. FS Date: 4/12/2017 9:47:25 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51506\_64726.jpg



Heavy rodent activity along pipe, both sides.

LM Start	1.16	Rating **	U	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.127527 °	39.127527 °
				-121.756493 °	-121.756493 °
DWR ID	DWR_ST0010_02_f_2016_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the waterside slope.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_19\_20180905\_00013.jpg



View of the rodent holes along the waterside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.71	Rating **	M	Issue No.	23
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.133912 °	39.133912 °
				-121.750258 °	-121.750258 °
DWR ID	DWR_ST0010_02_f_2018_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the waterside slope.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_23\_20181106\_00040.jpg



View of the rodent holes along the waterside slope.

LM Start	1.74	Rating **	M	Issue No.	10
LM End	2.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 R					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

No Photos

LM Start	1.75	Rating **	M	Issue No.	20
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.134378 °	39.134378 °
				-121.749803 °	-121.749803 °
DWR ID	DWR_ST0010_02_f_2016_20				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_20\_20180905\_00014.jpg



View of the ramp encroaching into the levee.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	11
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490 °	39.134490 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f_2012_11				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent hole.					

LM Start	<b>1.76</b>	Rating **	M	Issue No.	<b>11 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA\_2018\_ST0010\_43\_11\_20180905\_00011.jpg



View of the rodent holes above the irrigation pipe.

Photo 2 of 2 : FA\_2018\_ST0010\_43\_11\_20180905\_00012.jpg



View of the rodent hole above the irrigation pipe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	26
LM End	1.76	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.134499 °	39.134499 °
				-121.749712 °	-121.749712 °
DWR ID	17082				

**Comment Code**

**Inspector Comment**

FS\_ID:51512

DS\_ID:17082

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 4/10/2017 Abandoned crossing. Pipe measures to be 16" on both sides of levee. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing. Minor rodent activity near by.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears abandoned. Minor rodent activity under pipe on LS slope.5/12/2015 Abandoned crossing that needs to be properly abandoned. Rodent activity near LS pipe.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Heavy rodent activity along LS alignment of pipe. No pump on structure and it appears to be abandoned. Should be abandoned properly. (W. Wylie - DWR UCIP)

FIELD\_STRUCT\_DESC: \*ABANDONED\* 16-inch steel irrigation pipe through the levee, 4.4 feet below the crown. Pump mounted on a timber structure located on the waterside (WS). Siphon breaker located on the landside (LS) slope. 48-inch concrete standpipe located on the LS berm (not found in 2012). (Permit No. 1104, 1946 - Muns). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 93+50), listed as a 12-inch pipe]. FS Date: 4/12/2017 9:55:14 AM

LM Start	<b>1.76</b>	Rating **	M	Issue No.	<b>26 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51512\_64736.jpg



Pipe on LS showing rodent activity.

Photo 2 of 3 : UCIP\_FA\_2018\_51512\_64735.jpg



Pipe on LS showing rodent activity.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	26 (cont)	
LM End	1.76	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.134499 °	39.134499 °	
				-121.749712 °	-121.749712 °	
DWR ID	17082					
Comment Code						
Inspector Comment						
FS_ID:51512 DS_ID:17082 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Abandoned crossing. Pipe measures to be 16" on both sides of levee. (DWR Sutter Yard-AFreitag)10/12/2016 Abandoned crossing. Minor rodent activity near by.(DWR Sutter Yard - aFreitag)4/19/2016 Crossing appears abandoned. Minor rodent activity under pipe on LS slope.5/12/2015 Abandoned crossing that needs to be properly abandoned. Rodent activity near LS pipe.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Heavy rodent activity along LS alignment of pipe. No pump on structure and it appears to be abandoned. Should be abandoned properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel irrigation pipe through the levee, 4.4 feet below the crown. Pump mounted on a timber structure located on the waterside (WS). Siphon breaker located on the landside (LS) slope. 48-inch concrete standpipe located on the LS berm (not found in 2012). (Permit No. 1104, 1946 - Muns). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 93+50), listed as a 12-inch pipe]. FS Date: 4/12/2017 9:55:14 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_51512\_64734.jpg



Pipe on left without pump.

LM Start	2.41	Rating **	M	Issue No.	8
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 R					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 2 : FA\_2018\_ST0010\_43\_8\_20180905\_00007.jpg



View of erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	2.41	Rating **	M	Issue No.	8 (cont)	
LM End	3.28	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 USACE Erosion Survey, DRAFT			39.142254 °		39.153150 °
				-121.742847 °		-121.734611 °
DWR ID	DWR_ST0010_02_f_2018_8					
Comment Code						
Inspector Comment						
2017 Site ID: WAC 2.4 R						
Status: Eroding						
2017 Field Notes: Significant new erosion along lower bank.						
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.						

Photo 2 of 2 : FA\_2018\_ST0010\_43\_8\_20180905\_00008.jpg



View of the erosion along the landside toe.

LM Start	2.95	Rating **	M	Issue No.	21
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_21\_20180905\_00015.jpg



View of the ramp encroaching into the levee.

LM Start	2.95	Rating **	M	Issue No.	22
LM End	2.95	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_22				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					
Longitudinal cracks caused by fat clay.					

Photo 1 of 2 : FA\_2018\_ST0010\_43\_22\_20180905\_00016.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	2.95	Rating **	M	Issue No.	22 (cont)	
LM End	2.95	Issue Type +	Ob	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Cracking			39.148938 °		39.148938 °
				-121.737620 °		-121.737620 °
DWR ID	DWR_ST0010_02_f_2016_22					
Comment Code						
CR1 : Monitor and have inspected by geotechnical engineer.						
Inspector Comment						
Longitudinal cracks caused by fat clay.						

Photo 2 of 2 : FA\_2018\_ST0010\_43\_22\_20180905\_00017.jpg



View of the longitudinal cracks along the landside slope.

LM Start	3.00	Rating **	M	Issue No.	27
LM End	3.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.149561 °	39.149561 °
				-121.737080 °	-121.737080 °
DWR ID	17077				
Comment Code					
Inspector Comment					
FS_ID:51515 DS_ID:17077 EP_NO: 7209 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe, O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)]. FS Date: 4/12/2017 10:16:27 AM					

Photo 1 of 3 : UCIP\_FA\_2018\_51515\_64744.jpg



Bush camouflaging outlet of pipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.00	Rating **	M	Issue No.	27 (cont)
LM End	3.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.149561 °	39.149561 °
				-121.737080 °	-121.737080 °
DWR ID	17077				

**Comment Code**

**Inspector Comment**

FS\_ID:51515  
DS\_ID:17077  
EP\_NO: 7209  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe, O&M pipe replaced with new 30-inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (Original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources [DWR]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)].  
FS Date: 4/12/2017 10:16:27 AM

LM Start	<b>3.00</b>	Rating **	M	Issue No.	<b>27 (cont)</b>
LM End	<b>3.00</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_51515\_64743.jpg



Heavy vegetation at LS inlet at channel.

Photo 3 of 3 : UCIP\_FA\_2018\_51515\_64742.jpg



Pipe and flap gate at WS outlet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.24	Rating **	A	Issue No.	18
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.152560 °	39.153087 °
				-121.735032 °	-121.734822 °
DWR ID	DWR_ST0010_02_f_2018_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion along the waterside channel was repaired.					

Photo 1 of 1 : FA\_2018\_ST0010\_43\_18\_20181106\_00036.jpg



View of the repaired erosion along the waterside channel.

LM Start	3.28	Rating **	M	Issue No.	28	
LM End	3.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.153172 °	39.153172 °	
				-121.734741 °	-121.734741 °	
DWR ID	23098					
Comment Code						
Inspector Comment						
FS_ID:51516 DS_ID:23098 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/10/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in good condition.(DWR Sutter Yard - afreitag)5/27/2016 Need photos of markers and levee overview. (O. Magana)4/19/2016 Crossing appears to be in good condition. No permit on file.5/12/2015 Crossing is in good condition but does not have a permit on file for it.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 No known permit for work. FIELD_STRUCT_DESC: 4-inch steel communication conduit through the levee, 2 feet below the crown. Fiber optics line attached to bottom of downstream side of South Butte Road bridge. Position marked with orange markers on both the waterside (WS) and landside (LS). No permit has been identified since crossing was field discovered in 2012. FS Date: 4/12/2017 10:18:34 AM						

Photo 1 of 3 : UCIP\_FA\_2018\_51516\_76965.jpg



Close up of marker.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.28	Rating **	M	Issue No.	28 (cont)	
LM End	3.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.153172 °	39.153172 °	
				-121.734741 °	-121.734741 °	
DWR ID	23098					
Comment Code						
Inspector Comment						
FS_ID:51516						
DS_ID:23098						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 4/10/2017 Crossing appears to be in good condition.						
(DWR Sutter Yard- AFreitag)10/12/2016 Crossing appears to be in						
good condition.(DWR Sutter Yard - afreitag)5/27/2016 Need photos						
of markers and levee overview. (O. Magana)4/19/2016 Crossing						
appears to be in good condition. No permit on file.5/12/2015						
Crossing is in good condition but does not have a permit on file for						
it.11/18/2014 Same as last inspection.5/13/2014 Same as last						
inspection.10/29/2013 Same as last inspection.5/16/2013 No known						
permit for work.						
FIELD_STRUCT_DESC: 4-inch steel communication conduit through						
the levee, 2 feet below the crown. Fiber optics line attached to bottom						
of downstream side of South Butte Road bridge. Position marked with						
orange markers on both the waterside (WS) and landside (LS). No						
permit has been identified since crossing was field discovered in 2012.						
FS Date: 4/12/2017 10:18:34 AM						

LM Start	<b>3.28</b>	Rating **	M	Issue No.	<b>28 (cont)</b>
LM End	<b>3.28</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_51516\_76966.jpg



Levee crown overview looking upstream

Photo 3 of 3 : UCIP\_FA\_2018\_51516\_76967.jpg



WS slope where conduit exits and attaches to downstream side of South Butte Rd bridge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.30	Rating **	M	Issue No.	9
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.153320 °	39.171031 °
				-121.734573 °	-121.727040 °
DWR ID	DWR_ST0010_02_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.3 R					
Status: Eroding					
2017 Field Notes: Site extended downstream. Significant lower bank erosion.					
Site History: 2011 - Small erosion pocket.					

LM Start	<b>3.30</b>	Rating **	M	Issue No.	<b>9 (cont)</b>
LM End	<b>4.58</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA\_2018\_ST0010\_43\_9\_20180905\_00009.jpg



View of the erosion along the waterside toe.

Photo 2 of 2 : FA\_2018\_ST0010\_43\_9\_20180905\_00010.jpg



View of the erosion along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.31	Rating **	U	Issue No.	29
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID	17078				

**Comment Code**

**Inspector Comment**

FS\_ID:53066

DS\_ID:17078

EP\_NO: 10473

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Two sink holes visible on the LS slope. Crossing has been upgraded from Non-Urgent to Urgent because there are signs that the pipe has failed through the LS slope. Recommend video inspection to confirm pipe failure through the levee. Need to coordinate with CVFPB to have them contact the owner of the crossing. Unable to determine the extent of damage (size of sink holes) due to dense vegetation. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe (sink holes now present). The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)4/10/2017 WS appears to be in good condition. No repairs appear to have been made to the LS yet. Pipe measures to be 16". (DWR Sutter Yard- AFreitag)10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - aFreitag)4/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted.

5/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last

inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. (W. Wylie - DWR UCIP)

FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection. Record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee log references a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into a 36-inch concrete standpipe located on the landside (LS) toe of the levee. (Retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb. Remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown. Install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+63)].

FS Date: 10/4/2018 3:25:00 PM

Photo 1 of 3 : UCIP\_FA\_2018\_53066\_64761.jpg



Pump on steel pier at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.31	Rating **	U	Issue No.	29 (cont)
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID	17078				

**Comment Code**

**Inspector Comment**

FS\_ID:53066  
DS\_ID:17078  
EP\_NO: 10473  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/04/2018 Two sink holes visible on the LS slope. Crossing has been upgraded from Non-Urgent to Urgent because there are signs that the pipe has failed through the LS slope. Recommend video inspection to confirm pipe failure through the levee. Need to coordinate with CVFPB to have them contact the owner of the crossing. Unable to determine the extent of damage (size of sink holes) due to dense vegetation. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe (sink holes now present). The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)4/10/2017 WS appears to be in good condition. No repairs appear to have been made to the LS yet. Pipe measures to be 16". (DWR Sutter Yard- A/Freitag)10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - a/freitag)4/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted.

5/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection. Record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee log references a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into a 36-inch concrete standpipe located on the landside (LS) toe of the levee. (Retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb. Remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown. Install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+63)].  
FS Date: 10/4/2018 3:25:00 PM

Photo 2 of 3 : UCIP\_FA\_2018\_53066\_64760.jpg



Rusted outlet at LS channel. Unclear if this is same pipe as one under investigation.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.31	Rating **	U	Issue No.	29 (cont)
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID	17078				

**Comment Code**

**Inspector Comment**

FS\_ID:53066

DS\_ID:17078

EP\_NO: 10473

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Two sink holes visible on the LS slope. Crossing has been upgraded from Non-Urgent to Urgent because there are signs that the pipe has failed through the LS slope. Recommend video inspection to confirm pipe failure through the levee. Need to coordinate with CVFPB to have them contact the owner of the crossing. Unable to determine the extent of damage (size of sink holes) due to dense vegetation. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe (sink holes now present). The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)4/10/2017 WS appears to be in good condition. No repairs appear to have been made to the LS yet. Pipe measures to be 16". (DWR Sutter Yard- AFreitag)10/12/2016 WS appears to be in good condition. LS is still very rusted where it extends over the LS ditch.(DWR Sutter Yard - aFreitag)4/19/2016 No changes have been made to this crossing. LS pipe outlet is still very rusted.

5/12/2015 Pipe is very rusty at Outlet in LS channel. No noticeable issues with WS.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection.10/9/2012 Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: 16-inch asphalt coated steel irrigation pipe through the levee, 2.7 feet below the crown. 16-inch pipe was measured during the UCIP field inspection. Record sources at this location reference the following pipe diameter size: USACE O&M manual references a 24-inch pipe, levee log references a 22-inch pipe, and permit records reference a 22-inch pipe. Unable to determine if original 22-inch pipe is still present through the levee. Vertical pump in the channel with a service pole on the waterside (WS) berm. Pipe discharges into a 36-inch concrete standpipe located on the landside (LS) toe of the levee. (Retain existing 22-inch pipe through levee and remove existing 12-inch pipe and replaced with 12-inch pipe under Permit No. 5622, 1967 - Webb. Remove 12-inch pipe and replace with 12-inch pipe under Permit No. 10473, 1976 - Brown. Install 16-inch pipe from canal to levee slope and modify existing 22-inch pipe under Permit No. 10473-A, 1976 - Brown). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+63)].  
FS Date: 10/4/2018 3:25:00 PM

Photo 3 of 3 : UCIP\_FA\_2018\_53066\_78288.jpg



Overview photo of crossings from opposite bank. Pipe to left is associated with dsid 17078 and pipe to right is dsid 17081.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.31	Rating **	U	Issue No.	30
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153530 °	39.153530 °
				-121.734620 °	-121.734620 °
DWR ID	17081				

**Comment Code**

**Inspector Comment**

FS\_ID:53067  
DS\_ID:17081  
EP\_NO: 5622  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/04/2018 Pipe measured in the field: Pipe size is 14 inches instead of 15 inches, as previously referenced. Unable to locate the hole rusted through the 12-inch pipe previously referenced in 2013 due to dense vegetation. Crossing remains Urgent due to the unknown conditions through the levee and from the standpipe to LS exposed pipe section. Recommend video inspection through the crossing to determine pipe integrity. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe. The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)4/10/2017 WS appears to be in good condition. No repairs appear to have been made yet to the LS. Pipe measures to be 15" (DWR Sutter Yard- afreitag)10/12/2016 WS seems to be in good condition. No repairs have been made yet where the pipe appears to be leaking under the LS toe road.(DWR Sutter Yard - afreitag)4/19/2016 No repairs seem to have been made yet. Pipe still appears to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)5/12/2015 Pipe appears to have not yet been repaired. Still looks to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)11/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/16/2013 Signs of leaks near concrete stand pipe on LS toe-road. Area about 20ft. long is muddy and there has not been any rain for a few weeks. (DWR Sutter Yard - afreitag)  
FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through the levee, 2.7 feet below the crown. Vertical pumps located in the channel. Power pole on the waterside (WS) slope. Pipe discharges into 36-inch concrete standpipe located on the landside (LS) toe. 16-inch corrugated metal pipe (CMP) riser located on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+60)].  
FS Date: 10/4/2018 3:28:00 PM

Photo 1 of 3 : UCIP\_FA\_2018\_53067\_64764.jpg



Pump station in channel on WS

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.31	Rating **	U	Issue No.	30 (cont)
LM End	3.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153530 °	39.153530 °
				-121.734620 °	-121.734620 °
DWR ID	17081				

**Comment Code**

**Inspector Comment**

FS\_ID:53067  
DS\_ID:17081  
EP\_NO: 5622  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/04/2018 Pipe measured in the field: Pipe size is 14 inches instead of 15 inches, as previously referenced. Unable to locate the hole rusted through the 12-inch pipe previously referenced in 2013 due to dense vegetation. Crossing remains Urgent due to the unknown conditions through the levee and from the standpipe to LS exposed pipe section. Recommend video inspection through the crossing to determine pipe integrity. Notified J. Peterson with CVFPB - Enforcement Section about the updated inspection for this pipe. The CVFPB - Enforcement Section is pursuing corrective actions for this pipe under CVFPB Enforcement Id (Enf ID) 14602. (O. Magana - DWR UCIP)4/10/2017 WS appears to be in good condition. No repairs appear to have been made yet to the LS. Pipe measures to be 15" (DWR Sutter Yard- afreitag)10/12/2016 WS seems to be in good condition. No repairs have been made yet where the pipe appears to be leaking under the LS toe road.(DWR Sutter Yard - afreitag)4/19/2016 No repairs seem to have been made yet. Pipe still appears to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)5/12/2015 Pipe appears to have not yet been repaired. Still looks to be leaking under the LS toe road. (DWR Sutter Yard - afreitag)11/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/13/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/16/2013 Signs of leaks near concrete stand pipe on LS toe-road. Area about 20ft. long is muddy and there has not been any rain for a few weeks. (DWR Sutter Yard - afreitag)  
FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe through the levee, 2.7 feet below the crown. Vertical pumps located in the channel. Power pole on the waterside (WS) slope. Pipe discharges into 36-inch concrete standpipe located on the landside (LS) toe. 16-inch corrugated metal pipe (CMP) riser located on the LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 174+60)].  
FS Date: 10/4/2018 3:28:00 PM

Photo 2 of 3 : UCIP\_FA\_2018\_53067\_64763.jpg



36in. concrete standpipe and 12in. cm riser on LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

## Sutter Maintenance Yard Wadsworth Canal



## Sutter Maintenance Yard Wadsworth Canal

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.54	Rating **	A	Issue No.	5 (cont)	
LM End	3.76	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.156753 °		39.159795 °
				-121.733267 °		-121.731953 °
DWR ID	DWR_ST0010_02_s_2012_5					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
The erosion along the waterside channel was repaired by Sutter Maintenance Yard.						

Photo 2 of 2 : FA\_2018\_ST0010\_43\_5\_20180905\_00003.jpg



View of the erosion along the waterside toe.

LM Start	4.41	Rating **	A	Issue No.	7
LM End	4.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.168652 °	39.170110 °
				-121.728202 °	-121.727608 °
DWR ID	DWR_ST0010_02_s_2012_7				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion along the waterside channel was repaired by Sutter Maintenance Yard.					

Photo 1 of 2 : FA\_2018\_ST0010\_43\_7\_20181106\_00039.jpg



View of the repaired erosion along the waterside channel.

LM Start	<b>4.41</b>	Rating **	A	Issue No.	<b>7 (cont)</b>
LM End	<b>4.51</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2018\_ST0010\_43\_7\_20180905\_00005.jpg



View of the erosion along the WS toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement